ARIZONA DEPARTMENT OF TRANSPORTATION * MATERIALS GROUP



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CHANGE LETTER

MATERIALS TESTING MANUAL	CHANGE LETTER NO. 21
SUBJECT:	EFFECTIVE DATE:
Title Page, Distribution Memo, Table of Contents, Introduction, Changes in the Materials Testing Manual, Glossary of Terms, Cover Sheet for Series 100, Cover Sheet for Series 200, Cover Sheet for Series 300, Cover Sheet for Series 400, Cover Sheet for Series 500, Cover Sheet for Series 600, Cover Sheet for Series 700, Cover Sheet for Series 800, Arizona Test Methods 104c, 105c, 211d, 231a, 251, 314b, 317, 402c, 407d, 415c, 416d, 424a, 719c, 733a, 735a, 736a, 738, 813a, 827, 829a, Series 1000, Appendix A1, Appendix A2, and Appendix A3.	July 15, 2005

SUMMARY:

NOTE: Changes issued under this Change Letter are effective for projects with a bid opening date on or after July 15, 2005. Retain items removed from the Materials Testing Manual under this change letter for use as necessary on projects with a bid opening date prior to July 15, 2005.

- TITLE PAGE The Title Page has been revised to show the latest Change Letter number and revision date. Please replace the existing Title Page with the attached.
- 2. DISTRIBUTION MEMO The Distribution Memo has been revised to indicate current information. Please replace the existing Distribution Memo with the attached.
- TABLE OF CONTENTS The Table of Contents has been revised to reflect the changes made in this Change Letter. Please replace the existing Table of Contents with the attached.
- INTRODUCTION The Introduction has been revised to reflect information regarding AASHTO and ASTM test procedures. Please replace the existing Introduction with the attached.

- 5. CHANGES IN THE MATERIALS TESTING MANUAL Please replace the existing information with the attached.
- 6 GLOSSARY OF TERMS Please replace the existing information with the attached.
- 7. The following items are revised by this Change Letter. Please replace the respective existing items with the attached.

Series 100 Cover Sheet, "SAMPLING".

Arizona Test Method 104c, "SAMPLING BITUMINOUS MIXTURES".

Arizona Test Method 105c, "SAMPLING SOILS AND AGGREGATES".

Series 200 Cover Sheet, "SOILS AND AGGREGATES".

Arizona Test Method 211d, "SPECIFIC GRAVITY AND ABSORPTION OF FINE AGGREGATE".

Series 300 Cover Sheet, "CONCRETE".

Arizona Test Method 314b, "COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS".

Arizona Test Method 415c, "BULK SPECIFIC GRAVITY AND BULK DENSITY OF COMPACTED BITUMINOUS MIXTURES".

Arizona Test Method 416d, "PREPARING AND SPLITTING FIELD SAMPLES OF BITUMINOUS MIXTURES FOR TESTING".

Arizona Test Method 424a, "DETERMINATION OF AIR VOIDS IN COMPACTED BITUMNOUS MIXTURES".

Series 500 Cover Sheet, "BITUMINOUS MATERIALS".

Series 600 Cover Sheet, "CEMENT AND RELATED MATERIALS".

Series 700 Cover Sheet, "CHEMICAL AND SPECIALTY".

Arizona Test Method 719c, "HEATING AND DRYING MATERIALS IN MICROWAVE OVEN".

Arizona Test Method 733a, "SULFATE IN SOILS".

Arizona Test Method 735a, "TESTING OF THERMOPLASTIC PAVEMENT MARKING MATERIAL".

Arizona Test Method 736a, "CHLORIDE IN SOILS".

Arizona Test Method 829a, "EVALUATION OF PAVEMENT SMOOTHNESS".

Series 1000, "CERTIFICATES" (July 15, 2005).

Appendix A1, "ROUNDING PROCEDURE" (July 15, 2005).

Appendix A2, "METRIC GUIDE" (July 15, 2005).

Appendix A3, "EQUIPMENT CALIBRATION AND VERIFICATION" (July 15, 2005).

8. The following items are added by this Change Letter:

Arizona Test Method 251, "COMBINED COARSE AND FINE AGGREGATE SPECIFIC GRAVITY AND ABSORPTION".

Note: Any references to determining combined specific gravity or combined water absorption in ADOT specifications, test methods, or other documents shall be understood to reference Arizona Test Method 251.

Arizona Test Method 317, "OBTAINING AND TESTING DRILLED CORES AND SAWED BEAMS OF CONCRETE".

Note: This test method is a modification of AASHTO T24. Any references to AASHTO T24 in ADOT Specifications, test methods, or other documents shall be understood to reference Arizona Test Method 317.

Series 400 Cover Sheet, "BITUMINOUS MIXTURES".

Arizona Test Method 738, "CHLORIDE IN CONCRETE ADMIXTURES".

Series 800 Cover Sheet, "DESIGN".

9. The following items are deleted by this Change Letter:

Arizona Test Method 231a, "FIELD DENSITY BY THE RUBBER BALLOON METHOD (VOLUMETER)".

Arizona Test Method 402c, "BITUMEN CONTENT OF BITUMINOUS MIXTURES BY VACUUM EXTRACTION".

Arizona Test Method 407d, "DETERMINATION OF ASPHALT RETAINED IN BITUMINOUS MIXTURES".

Arizona Test Method 813a, "DESIGN AND CONTROL OF PORTLAND CEMENT CONCRETE MIXTURES".

Arizona Test Method 827, "VERIFICATION OF ASPHALTIC CONCRETE MIX DESIGNS".

James P. Delton

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GI:gi Attachments